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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/989,530	11/21/2001	Syuji Nakai	011900-315	9950
75	90 07/11/2003			
Platon N. Mandros BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404			EXAMINER	
			YEE, DEBORAH	
Alexandria, VA	22313-1404		ART UNIT	PAPER NUMBER
			1742	Ĵ
			DATE MAILED: 07/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

1		Application No.	Applicant(s)				
Office Action Summary		09/989,530	NAKAI ET AL.				
		Examiner	Art Unit				
		Deborah Yee	1742				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	Responsive to communication(s) filed on 13.	lune 2003					
1) 🛛	·	is action is non-final.					
2a)⊠	////		rosecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
1	Claim(s) <u>1-38</u> is/are pending in the application	1.					
4a) Of the above claim(s) 27-34 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-26 and 35-38</u> is/are rejected.							
-	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14)	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
	ce of References Cited (PTO-892)	4) 🔲 Interview Summa	ry (PTO-413) Paper No(s)				
2) Noti	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	Patent Application (PTO-152)				
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Application/Control Number: 09/989,530

Art Unit: 1742

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims1 to 26 and 35 to 38 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 to 26 and 35 to 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 129332.

The English abstract of JP'332 discloses an ultra-low carbon steel having a composition with constituents whose wt% ranges overlap those recited by the claims; such overlap renders applicant's composition prima facie obvious despite differences in non-overlapping areas, see In re Malagari, 182USPQ549.

More specifically, note examples C, E, F, G and H in Table 1 of columns 9 and 10 which meet the claimed composition. Even though prior art does not teach Ca, V, Sn, or Nb as recited by one or more of the claims, such would not be a patentable difference since the lower limit of these alloying constituents is zero and therefore optional.

Application/Control Number: 09/989,530

Art Unit: 1742

Also even though the prior art does not teach 20 or less inclusions in 60 fields under a microscope in a sample steel prepared in accordance with JIS G0555 as recited by the claims, such would not be a patentable difference since the technique of measuring is not the gist of the invention, and also the low number of 20 would be expected since similar to the present invention, the prior art desires and seeks to have extremely low numbers of inclusion in order to reduce surface defects, such as pin holes and press cracks. See the English abstract of JP'332 which teaches the defects present in the steel sheet are decreased by reducing the number of inclusions in a cast piece, in particular the number of an alumina cluster inclusion is less than 20/kg. In any event, the differences between the prior art and present invention would amount to no more than routine optimization of non-metallic inclusions which is well within the skill of the art and productive of no new and unexpected results.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Page 4

Application/Control Number: 09/989,530

Art Unit: 1742

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Deborah Yee whose telephone number is 703-308-

1102. The examiner can normally be reached on Monday-Friday from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Roy King can be reached on 703-308-1146. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-872-9310 for

regular communications and 703-873-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

dy

July 10, 2003

DEBORAH YEE